JOHNATHAN TAM

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Education

Bachelor of Computer Science (Dean's Honour List)   *Sep 2021 – May 2024*
University of British Columbia, Vancouver, BC

Bachelor of Science in Biology (Dean's Honour List)   *Sep 2012 – Nov 2017*
University of British Columbia, Vancouver, BC

Work Experience

Software Engineer Intern, Diligent Corporation   *Sep 2023 – Jan 2024*
Technologies: TypeScript, Node, Amazon Web Services (AWS) – S3, CloudWatch, Pipeline, DynamoDB
- Developed a CloudWatch-based monitoring system, triggering alarm notifications directly to Slack and SMS, therefore enabling real-time responses to critical events and reducing manual monitoring by 50%.
- Engineered a solution for generating and storing encrypted tokens (UUID with SHA256) in DynamoDB, ensuring enhanced security management.
- Revitalized data verification processes to prevent duplication by developing a Lambda function that calculates and stores checksums for data and metadata in DynamoDB, with alerts to an SQS queue for any inconsistencies.

Junior Software Developer Intern, Delta Controls   *May 2023 – Aug 2023*
Technologies: Python, Django, PostgreSQL, PHP, Zend, Docker, React, Jenkins
- Enhanced web platform scalability by 40% through transitioning key features from PHP Zend framework to Python Django framework.
- Designed a login API, facilitating secure transfer of cookies, IDs, and access tokens, while integrating comprehensive error handling for optimal system performance and reliability.
- Constructed advanced backend APIs for optimized data retrieval and updates, including crafting custom HTTP responses to ensure clear communication of successful or unsuccessful data transactions.

Full Stack Software Developer Intern, Convergence Concepts   *Sep 2022 – Dec 2022*
Technologies: React, JavaScript, TypeScript, GraphQL, Node, PostgreSQL, MongoDB, React Native, Apollo
- Improved response time of an affiliate network web application (Fintel Connect) by 60% by developing efficient SQL queries and creating relational database.
- Spearheaded the creation of dynamic, feature-rich web pages for Fintel Connect, shaping Figma designs from the UI/UX team into a responsive online marketing platform.
- Revitalized an outdated React Native application by upgrading it to the latest SDK, removing deprecated libraries, modernizing the codebase, and ensuring compatibility with both iOS and Android platforms.

Technical Projects

Hearo – SFU StormHacks Top 5 Finalist + Most Creative Use of API   *Feb 18 – 20, 2022*
Technologies: React, Node, RESTful APIs, JavaScript, CSS, HTML
- Selected as a top 5 finalist and the won most creative use of API award out of 400 participants at SFU StormHacks by working in a team of 4 to develop an app that transcribed speech from live phone calls into text.

Strata Multi-Court Booking System   *July 2023 – Sep 2023*
Technologies: React, Node, PostgreSQL, Express, JavaScript, HTML, CSS
- Showcased and designed a full-stack web application for a strata council, offering residents a multi-faceted booking platform that can view, make, and update bookings for a shared amenities facility.

Technical Skills

Languages: Python, Java, TypeScript, JavaScript, PHP, C/C++, HTML/CSS
Tools + Frameworks: React, Node, Express, Redux, Material-UI, Numpy, MongoDB, Auth0, JUnit, React Native, GraphQL, PostgreSQL, MySQL, Redux, Apollo, Django, Git, Jira, Confluence, Jenkins, AWS